

THORNSBERRY et al
Serial No. 10/615,591

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IN THE CLAIMS:

Please replace the claims currently on file with the following set of claims:

1. (CURRENTLY AMENDED) A laminated foam board comprising:
two aluminum foil facers disposed on opposing broad flat surfaces of said board;
a closed-cell foam core formed from a polyurethane modified polyisocyanurate
foam formulation including a mixture of the methyl esters of glutaric, succinic, and
adipic acid; and
~~a foam core to which the two facers are adhered, the foam core being a closed-cell~~
~~foam formed from a mixture of the methyl esters of glutaric, succinic, and adipic acid;~~
~~and~~
wherein by virtue of using the mixture a bonding strength of said facers to said
foam core is greater than had the mixture not been used.
2. (Previously Presented) The article of claim 1, wherein said foam board is a
polyurethane laminated foam board.
3. (Previously Presented) The article of claim 1, wherein said foam board is a
polyurethane modified polyisocyanurate laminated foam board.
4. (Previously Presented) The article of claim 1, wherein said mixture comprises
methyl esters of about 59% glutaric acid, about 20% succinic acid, and about 21% adipic
acid.
5. (Previously Presented) The article of claim 1, wherein the foam comprises a
polyol and an organic polyisocyanate, and wherein said mixture is added at an add-on
rate within the range of about 0.5 to about 5.0 parts per hundred of polyol (pphpp).
6. (Previously Presented) The article of claim 5, wherein said mixture is added at
an add-on rate within the range of from about 1.0 to about 3.0 pphpp.

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7. (Previously Presented) The article of claim 1, wherein the foam core is blown with an expansion agent which includes n-pentane.

8. (Previously Presented) The article of claim 1, wherein the foam core is formed with an amount of the mixture whereby a peel strength resistance for the facers is greater than 1.0 pound.

9. (Currently Amended) A polyurethane modified polyisocyanurate laminated foam board comprising:

two aluminum foil facers disposed on opposing broad flat surfaces of said board;
a foam core to which the two facers are adhered, the foam core being a closed-cell foam ~~formed from which includes~~ a mixture of the methyl esters of glutaric, succinic, and adipic acid and utilizing n-pentane as an expansion agent, an amount of the mixture utilized being chosen to enhance adhesion of the facers to the foam core.

10. (Previously Presented) The article of claim 9 wherein said mixture comprises methyl esters of about 59% glutaric acid, about 20% succinic acid, and about 21% adipic acid.

11. (Previously Presented) The article of claim 9 wherein the foam comprises a polyol and an organic polyisocyanate, and wherein said mixture is added at an add-on rate within the range of about 0.5 to about 5.0 parts per hundred of polyol (pphpp).

12. (Previously Presented) The article of claim 9 wherein said mixture is added at an add-on rate within the range of from about 1.0 to about 3.0 pphpp.

13. (Previously Presented) The article of claim 9, wherein the amount of the mixture utilized is chosen to provide a peel strength resistance for the facers of greater than 1.0 pound.

14. (Previously Presented) A method of making a closed-cell polyurethane modified polyisocyanurate laminated foam board, comprising:

adding to a foam formulation a mixture of the methyl esters of glutaric, succinic, and adipic acid to improve adhesion of a facer to the foam board;

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curing the foam formulation in a manner to provide foam core interposed between two facers adhered to the foam core.

15. (Previously Presented) The method of claim 14, wherein the step of adding the mixture comprises adding methyl esters of about 59% glutaric acid, about 20% succinic acid, and about 21% adipic acid.

16. (Previously Presented) The method of claim 14, wherein the foam formulation comprises a polyol and an organic polyisocyanate, and wherein said mixture is added at an add-on rate within the range of about 0.5 to about 5.0 parts per hundred of polyol (pphpp).

17. (Previously Presented) The method of claim 14, wherein said mixture is added at an add-on rate within the range of from about 1.0 to about 3.0 pphpp.

18. (Previously Presented) The method of claim 14, further comprising blowing the foam core with an expansion agent which includes n-pentane.

19. (Previously Presented) The method of claim 14, further comprising choosing an amount of the mixture to provide a peel strength resistance for the facers of greater than 1.0 pound.

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